

4th German-French DNA Repair Meeting, Cologne 2017

September 21-23, 2017

Venue: Max Planck Institute for the Biology of Ageing, Joseph-Stelzmann-Strasse 9b, 50931 Cologne, Germany

September 21st, 2017

12.00 -14.00 **Registration**

Session I: DNA repair mechanisms: Biochemistry, structure and chromatin

- 14.00 – 14.15 Welcome **Björn Schumacher**
- 14.15 – 14.45 **Caroline Kisker** *University of Würzburg, Würzburg*, “RecQ4 - the odd one out in the RecQ helicase family”
- 14.45 – 15.10 **Jean-Marc Egly** *IGBMC, University of Strasbourg*, „Cockayne syndrome A and B proteins regulate transcription arrest through a ubiquitin/proteasome degradation process”
- 15.10 – 15.35 **Marta Llorens Agost** *Technical University Darmstadt*, “Rad52 prevents mis-rejoining of double-strand breaks in the absence of BRCA2“
- 15.35 – 16.00 **Pablo Radicella** *Institute of Cellular and Molecular Radiobiology, CEA*, “Cohesin and Mediator are required for the initiation of Base Excision repair in the nucleus“
- 16.00 – 16.25 **Boris Pfander** *Max Planck Institute of Biochemistry Martinsried*, “Chromatin constitutes a bottleneck in the response to double strand breaks“
- 16.25 – 16.55 Coffee break
- 16.55 – 17.25 **Bernard Lopez** *Institut de Cancérologie Gustave-Roussy, Villejuif*, “Distance effects on double strand break repair efficiency and accuracy: consequences on genome stability in mammalian cells.”
- 17.25 – 17.50 **Martijn Luijsterburg** *Leiden University*, “A PALB2-interacting Domain in RNF168 Couples Homologous Recombination to DNA Break-Induced Chromatin Ubiquitylation”
- 17.50 – 18.15 **Thomas Clouaire** *Université de Toulouse*, “Characterising the chromatin landscape at DNA double strand breaks“
- 18.15 – 18.40 **Aswin Mangerich** *University of Konstanz*, “Non-covalent interaction of poly(ADP-ribose) with the C-terminal domain of p53 determines substrate targeting by PARP1“
- 18.45 – 21.00 Poster session / Kölsch, Snacks

September 22nd, 2017

Session II: Genome integrity in the context of replication and transcription

- 09.00 – 09.30 **Philippe Pasero** *Institute of Human Genetics, Montpellier*, “SAMHD1 acts at stalled forks to prevent inflammation”
- 09.30 – 09.55 **Aaron Mandez Bermudez** *Institute for Research on Cancer and*

- Aging (IRCAN), Nice*, “The telomeric protein TRF2 prevents senescence by assisting replication of pericentromeric heterochromatin“
- 09.55 – 10.20 **George Iliaks** *University of Duisburg-Essen Medical School, Essen*, “Saturation of Homologous Recombination repair as a mechanism of DNA double-strand break repair pathway choice“
- 10.20 – 10.45 **Cedric Debes** *CECAD Research Center, University of Cologne*, “Ageing-associated changes in transcription and splicing efficiency“
- 10.45 – 11.15 Coffee break
- 11.15 – 11.45 **Michelle Debatisse** *Institute Curie, Paris*, “Common fragile site instability: a race against time“
- 11.45 – 12.10 **Katrin Paeschke** *European Research Institute for the Biology of Ageing (ERIBA) Groningen*, “A potential link between G-quadruplex structures and repair“
- 12.10 – 12.35 **Berit Jungnickel** *Friedrich Schiller University Jena*, “Control of AID activity“ and somatic hypermutation by PARP-1“
- 12.35 – 13.00 **Matthias Altmeyer** *University of Zurich*, „DSB repair pathway choice in the context of replicating chromatin“
- 13.00 – 14.45 Poster session / Lunch

Session III: DNA damage responses in aging and diseases

- 14.45 – 15.15 **Björn Schumacher** *CECAD Research Center, University of Cologne*, “Genome Stability in Development and Aging: An organismal perspective“
- 15.15 – 15.40 **Gilbert Weidinger** *Ulm University*, “Zebrafish heart regeneration depends on alleviation of cardiomyocyte replication stress by BMP signaling“
- 15.40 – 16.05 **Stephanie Panier** *The Francis Crick Institute, London*, “The SLX4-interacting protein SLX4IP limits BLM-dependent telomere instability in ALT cells“
- 16.05 – 16.30 **George Garinis**, *Institute of Molecular Biology and Biotechnology-FORTH, Heraklion*, “Nucleotide Excision Repair: from Chronic Inflammation to Tissue Degeneration“
- 16.30 – 17.00 Coffee break
- 17.00 – 17.30 **Markus Löbrich**, *Technical University, Darmstadt*, “ATRX promotes DNA repair synthesis and cross-over formation during homologous recombination“
- 17.30 – 17.55 **Françoise Dantzer**, *UMR7242, Biotechnology and Cell Signaling, Illkirch* “PARP3 in continuous and stress-induced neurogenesis in brain“
- 17.55 – 18.20 **Lara Perez-Martinez** *Institute of Molecular Biology gGmbH , Mainz*, „Identification of novel proteins implicated in the regulation of senescence in budding yeast“

- 18.20 – 18.45 **Matthias Rieckher** *CECAD Research Center, University of Cologne*,
“Investigating a systemic DNA damage response in the *C. elegans* soma”
- 18.45 – 19.00 Poster prize
- 19.30 Conference Dinner

September 23rd, 2017

Session IV: Genome Integrity in cancer development and therapy

- 09.00 – 09.30 **Clemens Schmitt** *Max-Delbrück-Centre for Molecular Medicine, Berlin*, “DNA damage, replication and repair in cellular senescence”
- 09.30 – 09.55 **Angelos Constantinou** *Institute of Human Genetics, CNRS UPR 1142, University of Montpellier*, “Dihydropyrimidinase protects cancer cells from replication interference induced by pyrimidine metabolites”
- 09.55 – 10.20 **Helmut Pospiech** *Leibniz Institute on Aging-Fritz Lipmann Institute, Jena*, “Heterozygous Germline Mutations in ABRAXAS causes BRCA1 Mislocation and DNA Damage response defects”
- 10.20 – 10.45 **Pierre-Olivier Frappart** *University Medical Centre Ulm*, „Modelling and Targeting ATM-deficient Pancreatic Ductal Adenocarcinoma (PDAC)”
- 10.45 – 11.15 Coffee break
- 11.15 – 11.40 **Jean Soulier**, *Hôpital Saint-Louis, Paris*, “Genetic instability, stem cell defect and leukemia in Fanconi anemia patients.”
- 11.40 – 12.05 **Jochen Kuper** *University of Würzburg*, „Targeting XPD for cancer therapy: A HTP screening campaign reveals potential leads”
- 12.05 – 12.30 **Kanstantsin Siniuk** *Leibniz Institute on Aging – Fritz Lipmann Institute (FLI), Jena*, „Poly(ADP-ribose) regulation of Chk1 as a potential target for cancer therapy”
- 12.30 – 12.55 **Jörg Fahrer** *University Medical Center Mainz*, „PARP-1 fuels inflammatory bowel disease and promotes colorectal tumor growth”
- 12.55 – 15.30 Lunch / Cologne Tour